

C L A I M S

What is claimed is:

1 1. An electronic board that assembly comprising:
2 first and second elementary printed circuit boards (PCBs) spacedly positioned apart from
3 one another and each including a lower outer surface;
4 first and second electrical connectors positioned on said lower outer surfaces of said first
5 and second PCBs, respectively, at least one of said electrical connectors including
6 external pins positioned within the respective one of said PCBs on which said at least one
7 electrical connector is positioned; and
8 an insulative layer located substantially between said first and second PCBs and in
9 physical contact therewith, said insulative layer being flexible.
10 2. The electronic board assembly of claim 1 further comprising at least one conductive via
11 within said insulative layer for transmitting electrical signals from one of said elementary
12 PCBs to the other.
13 3. The electronic board assembly of claim 1 wherein said insulative layer includes at least
14 one conductive part therein.

1 4. An electronic board assembly comprising:

2 first and second elementary printed circuit boards (PCBs) spacedly positioned apart from
3 one another and each including a lower outer surface;

4 first and second electrical connectors positioned on said lower outer surfaces of said first
5 and second PCBs, respectively, at least one of said electrical connectors including
6 external pins positioned within the respective one of said PCBs on which said at least one
7 electrical connector is positioned; and

8 an insulative adhesive layer located substantially between said first and second PCBs and
9 in physical contact therewith, said insulative layer being flexible.

10 5. The electronic board assembly of claim 4 further comprising at least one conductive via
11 within said insulative layer for transmitting electrical signals from one of said elementary
12 PCBs to the other.

13 6. The electronic board assembly of claim 4 wherein said insulative layer includes at least
14 one conductive part therein.

15 7. An electronic board assembly comprising:

16 first and second elementary printed circuit boards (PCBs) spacedly positioned apart from
17 one another at a predetermined distance and each including a lower outer surface;

18 first and second electrical connectors positioned on said lower outer surfaces of said first
19 and second PCBs, respectively, at least one of said electrical connectors including
20 external pins positioned within the respective one of said PCBs on which said at least one
21 electrical connector is positioned;

8 an insulative adhesive layer located substantially between said first and second PCBs and
9 in physical contact therewith, said insulative layer being flexible; and

10 at least one mechanical member for maintaining said first and second elementary PCBs
11 spacedly apart said predetermined distance from one another.

1 8. The electronic board assembly of claim 7 wherein said at least one mechanical member
2 comprises a U-shaped member positioned on the first and second electrical lower edge of
3 each of said PCBs and having an upper part, said upper part of said U-shaped member
4 being positioned substantially between said first and second electrical connectors carried
5 by said two elementary PCBs.

6 9. The electronic board of claim 8 wherein said U-shaped member is comprised of
7 conductive material to thereby reduce electromagnetic emissions from said PCBs.

8 10. The electronic board assembly of claim 7 further comprising at least one conductive via
9 within said insulative layer for transmitting electrical signals from one of said elementary
10 PCBs to the other.

11 11. The electronic board assembly of claim 7 wherein said insulative layer includes at least
12 one conductive part therein.

13 12. An electronic board assembly comprising:

14 first and second elementary printed circuit boards (PCBs) spacedly positioned apart from
15 one another and each including a lower outer surface;

4 first and second electrical connectors positioned on said lower outer surfaces of said first
5 and second PCBs, respectively, at least one of said electrical connectors including
6 external pins positioned within the respective one of said PCBs on which said at least one
7 electrical connector is positioned;

8 an insulative adhesive layer located substantially between said first and second PCBs and
9 in physical contact therewith, said insulative layer being flexible; and

10 a backplane PCB having first and second electrical connectors spacedly positioned
11 thereon, said first and second electrical connectors on said PCBs being electrically
12 coupled to said first and second electrical connectors of said backplane PCB, respectively.

13. The electronic board assembly of claim 12 wherein said first and second electrical
connectors on said backplane PCB are male pin connectors and said first and second
electrical connectors on said first and second PCBs are female connectors.

14. The electronic board assembly of claim 12 further comprising at least one conductive via
within said insulative layer for transmitting electrical signals from one of said elementary
PCBs to another.

1 15. The electronic board assembly of claim 12 wherein said insulative layer includes at least
2 one conductive part therein.